

September 6, 2019

Jiangxi Yikang Medical Instrument Group Co., Ltd Nicholas Su Regulatory Affairs Specialist 188 Aihua Road, Jinxian County Nanchang, 331725 Cn

Re: K190213

Trade/Device Name: Yikang Endotracheal Tube

Regulation Number: 21 CFR 868.5730 Regulation Name: Tracheal Tube

Regulatory Class: Class II Product Code: BTR

Dated: August 2, 2019 Received: August 12, 2019

#### Dear Nicholas Su:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. Although this letter refers to your product as a device, please be aware that some cleared products may instead be combination products. The 510(k) Premarket Notification Database located at <a href="https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm">https://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfpmn/pmn.cfm</a> identifies combination product submissions. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part

K190213 - Nicholas Su Page 2

801); medical device reporting (reporting of medical device-related adverse events) (21 CFR 803) for devices or postmarketing safety reporting (21 CFR 4, Subpart B) for combination products (see <a href="https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products">https://www.fda.gov/combination-products/guidance-regulatory-information/postmarketing-safety-reporting-combination-products</a>); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820) for devices or current good manufacturing practices (21 CFR 4, Subpart A) for combination products; and, if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to <a href="https://www.fda.gov/medical-devices/medical-device-safety/medical-device-reporting-mdr-how-report-medical-device-problems">https://www.fda.gov/medical-device-problems</a>.

For comprehensive regulatory information about medical devices and radiation-emitting products, including information about labeling regulations, please see Device Advice (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance</a>) and CDRH Learn (<a href="https://www.fda.gov/training-and-continuing-education/cdrh-learn">https://www.fda.gov/training-and-continuing-education/cdrh-learn</a>). Additionally, you may contact the Division of Industry and Consumer Education (DICE) to ask a question about a specific regulatory topic. See the DICE website (<a href="https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice">https://www.fda.gov/medical-devices/device-advice-comprehensive-regulatory-assistance/contact-us-division-industry-and-consumer-education-dice</a>) for more information or contact DICE by email (DICE@fda.hhs.gov) or phone (1-800-638-2041 or 301-796-7100).

Sincerely,

Todd Courtney
Assistant Director
DHT1C: Division of ENT, Sleep Disordered
Breathing, Respiratory and
Anesthesia Devices
OHT1: Office of Ophthalmic, Anesthesia,
Respiratory, ENT and Dental Devices
Office of Product Evaluation and Quality
Center for Devices and Radiological Health

Enclosure

# DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

### **Indications for Use**

510(k) Number (if known)

Form Approved: OMB No. 0910-0120

Expiration Date: 06/30/2020 See PRA Statement below.

K190213	
Device Name Yikang Endotracheal Tube	
Indications for Use (Describe) The device is intended for oral or nasal intubation and for airv	vay management.
Type of Use (Select one or both, as applicable)	
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)

CONTINUE ON A SEPARATE PAGE IF NEEDED.

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#### 510(k) Summary

(as requested by 21 CFR 807.92)

K190213

Submitter of 510(k): Jiangxi Yikang Medical Instrument Group Co., Ltd

Address: 188 Aihua Road, Jinxian County, Nanchang, Jiangxi,

China 331725

Phone: +86 791 8563 2226 Fax: +86 791 8563 2226

Contact Person: Nicholas Su

Regulatory Affairs Specialist E-mail: andy\_smith@yeah.net

**Date of summary:** January 29, 2019

Proposed device:

Trade Name: Yikang Endotracheal Tube

Common Name: Endotracheal Tube
Classification Name: Tracheal tube

Product Code: BTR

Panel: 73(Anesthesiology)

Classification: Class II Regulation Number: 868.5730

### **Legally Marketed Predicate Device:**

Trade Name: Well Lead Endotracheal Tube

510(k) Number: K042683

Submitter of 510(k)/holder: Well lead Medical Instruments Ltd.

#### **Device Description:**

Yikang endotracheal tube is a device intended for oral or nasal intubation and for airway management. It is a sterile and single use device, it is made from medical grade PVC. The Yikang endotracheal tube has cuffed and uncuffed, and is available in size I.D. 2.0mm through I.D. 10.0mm, and has a Murphy eye. It basically consists of tube shaft, cuff, inflation line, pilot balloon, one-way valve, and a male 15mm conical connector. A radiopaque line is incorporated into the full length of the tracheal tube.

When used tracheal tube is inserted through the larynx into the trachea to convey gases to and from the trachea. Cuffed tracheal tube is intended to seal and protect aspiration of secretions, and to provide an unobstructed airway in patients during ventilation. A radiopaque line helps to



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determine proper placement of the tracheal tube with the characterization of visibility of tracheal tube in X-rays.

Size I.D. 2.0mm through 4.5mm are intended for pediatric use (12 years old to less than 21 years old), Size I.D. 5.0mm through 10.0mm are intended for adult use.

#### **Intended Use:**

The device is intended for oral or nasal intubation and for airway management.

#### **Device Performance:**

Testing results indicated that the product meets specified performance requirements, and complied with ISO5361:2016.

### **Comparison of Technological Characteristics:**

Yikang's endotracheal tube has the same technological characteristics as the predicate device. The design, material, form, fit, function and method of operation are similar.

#### **Substantial Equivalence**

Element	t of	Submission Device	Predicate Device	Comparison
Compar	ison		K042683	
Intended	d Use	The device is intended for	The device is intended for oral	Same
		oral or nasal intubation and	or nasal intubation and for	
		for airway management.	airway management.	
Principle	e of	Normal	Normal	Same
Operation	on			
Type		Oral/nasal cuffed, Oral/nasal	Oral/nasal cuffed, Oral/nasal	Same
		uncuffed, Nasal cuffed, Nasal	uncuffed, Nasal cuffed, Nasal	
		uncuffed, Oral cuffed, Oral	uncuffed, Oral cuffed, Oral	
		uncuffed.	uncuffed.	
Size		Oral/nasal cuffed (I.D 2.0-10.0)	Oral/nasal cuffed (I.D 5.0-10.0)	Similar
		Oral/nasal uncuffed (I.D 2.0-10.0)	Oral/nasal uncuffed (I.D 2.0-10.0)	Same
		Nasal cuffed (I.D 3.0-10.0)	Nasal cuffed (I.D 5.0-10.0)	Similar
		Nasal uncuffed (I.D 3.0-10.0)	Nasal uncuffed (I.D 2.0-10.0)	Similar
		Oral cuffed (I.D 3.0-10.0)	Oral cuffed (I.D 5.0-10.0)	Similar
		Oral uncuffed (I.D 3.0-10.0)	Oral uncuffed (I.D 2.0-10.0)	Similar
Tube	I.D	Oral/nasal cuffed ±5mm	Oral/nasal cuffed ±3mm	/
Length	2.0	170	/	Meet
	2.5	170	/	requirements
	3.0	190	/	of



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3.5
4.5       240       /         5.0       265       245       Similar, and meet meet requirements         6.0       285       285       requirements of ISO5361:2016.         7.0       310       310       ISO5361:2016.         7.5       315       315       ISO5361:2016.         8.0       330       330       330         8.5       330       330       330         9.0       330       330       330         10.0       330       330       330         1.D       Oral/nasal uncuffed ±5mm       /         2.0       170       140       Similar, and meet requirements of similar, and similar, and similar, and meet requirements of similar, and similar, and meet requirements of similar, and similar, and meet requirements of similar, and similar, and similar, and meet requirements of similar, and similar, and meet requirements of similar, and similar, and similar, and meet requirements of similar, and similar,
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8.5     330     330       9.0     330     330       9.5     330     330       10.0     330     330       I.D     Oral/nasal uncuffed±5mm     Oral/nasal uncuffed ±3mm     /       2.0     170     140     Similar, and meet       2.5     170     145     meet       3.0     190     165     requirements       3.5     215     185     of       4.0     215     210     ISO5361:2016.       4.5     240     225     South of the control of the contr
9.0     330     330       9.5     330     330       10.0     330     330       I.D     Oral/nasal uncuffed±5mm     Oral/nasal uncuffed ±3mm     /       2.0     170     140     Similar, and meet       2.5     170     145     meet       3.0     190     165     requirements       3.5     215     185     of       4.0     215     210     ISO5361:2016.       4.5     240     225     245
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2.5     170     145     meet       3.0     190     165     requirements       3.5     215     185     of       4.0     215     210     ISO5361:2016.       4.5     240     225       5.0     265     245
3.0     190     165     requirements       3.5     215     185     of       4.0     215     210     ISO5361:2016.       4.5     240     225       5.0     265     245
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4.0 215 210 ISO5361:2016. 4.5 240 225 245
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2.5 / / /
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3.5 290 / requirements
4.0 310 / of
4.5 310 / ISO5361:2016.



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5.0	330	330	Similar, and
5.5	330	330	meet
6.0	360	360	requirements
6.5	360	360	of .
7.0	380	380	ISO5361:2016.
7.5	380	380	
8.0	390	390	
8.5	390	390	
9.0	400	400	
9.5	400	400	
10.0	400	400	
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2.5	/	145	/
3.0	190	165	Similar, and
3.5	215	185	meet
4.0	215	210	requirements
4.5	240	225	of
5.0	265	245	ISO5361:2016.
5.5	275	275	
6.0	285	285	
6.5	305	295	
7.0	310	310	
7.5	315	315	
8.0	330	330	
8.5	330	330	
9.0	330	330	
9.5	330	330	
10.0	330	330	
I.D	Oral cuffed, ±5mm	Oral cuffed, ±3mm	/
2.0	/	/	/
2.5	/	/	/
3.0	170	/	Meet
3.5	180	/	requirements
4.0	190	/	of
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5.5	240	245	meet
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6.5					
7.5         310         300           8.0         325         310           8.5         335         320           9.0         350         335           9.5         350         350           1.D         Oral uncuffed, ±5mm         Oral uncuffed, ±3mm         /           2.0         /         125         /           2.5         /         135         /           3.0         170         155         Similar, and meet requirements of 21           4.0         190         200         requirements of 21           5.0         225         230         ISO5361:2016.           5.5         240         245         ISO5361:2016.           6.0         255         255         ISO5361:2016.           6.5         265         265         ISO5361:2016.           7.5         310         300         ISO5361:2016.           8.5         335         320         ISO5361:2016.           8.5         335         320         ISO5361:2016.           8.5         335         320         ISO5361:2016.           8.5         335         320         ISO5361:2016.           8.5		6.5	265	265	of
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9.0   350   335   350		8.0	325	310	
9.5   350   350   350   350		8.5	335	320	
10.0   350   350   350   350		9.0	350	335	
I.D		9.5	350	350	
2.0		10.0	350	350	
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6.0   255   255   265		5.0	225	230	ISO5361:2016.
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7.5         310         300           8.0         325         310           8.5         335         320           9.0         350         335           9.5         350         350           Material         PVC         PVC         Same           Performance         Conforms to ISO5361         Conforms to ISO5361         Same           Biocompatibility         Conforms to ISO10993-1         Conforms to ISO10993-1         Same           Labeling         Meet the requirements of 21 CFR Part 801         Meet the requirements of 21 CFR Part 801         Same           Sterility         Sterile, SAL: 1X10-6 ETO Sterile, SAL: 1X10-6 ETO Sterile, SAL: 1X10-6 ETO Sterilization         Sterilization         Sterilization		6.5	265	265	
8.0   325   310		7.0	290	295	
8.5         335         320           9.0         350         335           9.5         350         350           Material         PVC         PVC         Same           Performance         Conforms to ISO5361         Conforms to ISO5361         Same           Biocompatibility         Conforms to ISO10993-1         Conforms to ISO10993-1         Same           Labeling         Meet the requirements of 21 CFR Part 801         Meet the requirements of 21 CFR Part 801         Sterile, SAL: 1X10-6 ETO Sterile, SAL: 1X10-6 ETO Sterilization         Sterilization         Sterilization		7.5	310	300	
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CFR Part 801 CFR Part 801  Sterility Sterile, SAL: 1X10 <sup>-6</sup> ETO Sterile, SAL: 1X10 <sup>-6</sup> ETO Same Sterilization	Biocompatibility		Conforms to ISO10993-1	Conforms to ISO10993-1	Same
Sterility Sterile, SAL: 1X10 <sup>-6</sup> ETO Sterile, SAL: 1X10 <sup>-6</sup> ETO Same Sterilization	Labeling		Meet the requirements of 21	Meet the requirements of 21	Same
Sterilization Sterilization					
	Sterility				Same
Single use Yes Yes Same					
	Single u	se	Yes	Yes	Same

### **Discussion of Similarities and Differences**

As indicated by above comparison table our Yikang Endotracheal Tube has same intended use, and similar design, material, technical characteristics, principle of operation and performance as predicate device, Well Lead Endotracheal Tube under k042683.



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The additional size endotracheal tubes (oral/nasal cuffed (I.D2.0-4.5), nasal cuffed(I.D 3.0-4.5), and oral cuffed (I.D 3.0-4.5)) of propose device when compared to predicate device all complied with the requirements specified by ISO5361: 2016, compliance testing indicated in section 18: performance testing of this submission. The tube length of the proposed device for every type and size was similar as the predicate device, and it met the tube length requirements specified by ISO5361: 2016. Therefore, the differences between our proposed device and legally market predicate device (additional size and tube length) did not raise different questions of safety or effectiveness.

Based on the comparison of intended use, design, material, operation principle, and performance, our YiKang Endotracheal Tube is substantial equivalent to its predicate device which approved by FDA under K042683.

#### **Summary of Performance testing**

Performance testing have been conducted on YiKang Endotracheal Tube per ISO5361: 2016, and all the testing results meet requirements of ISO5361: 2016 and defined acceptance criteria. Detailed testing conducted as follows:

- Cuff diameter
- Cuff herniation
- Cuff leakage
- Tube collapse
- Kink resistance
- Tracheal seal

#### **Biocompatibility**

The YiKang Endotracheal Tube passed biocompatibility testing of cytotoxicity, sensitization, irritation, acute systemic toxicity, material—mediated pyrogenicity, subchronic toxicity, genotoxicity, and implantation per ISO10993-1.

#### Conclusion

Based on the information included in this premarket notification submission, and in accordance with 21 CFR Part 807 (E), Jiangxi Yikang Medical Instrument Group Co., LTD. concludes that the YiKang Endotracheal Tube is substantially equivalent to the predicate device cleared under K042683 without raising different questions of safety and effectiveness.